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(54) APPARATUS FOR MEASURING DIELECTRIC CHARACTERISTIC OF LIQUID

(57) Abstract:

PURPOSE: To prevent damages to the wall surface of a hollow and measuring errors caused by a sample stage, by making a liquid container communicate with the outside through a hole opened in the cylindrical hollow and holding the liquid container from outside of the cylindrical hollow.

CONSTITUTION: A liquid container 4a communicates with the outside through a hole 2 opened in a cylindrical hollow 1a. The liquid container 4a is tightly sealed inside the hollow 1a. A liquid sample 9 is fully filled to the outside of the hollow 1a. Therefore, such phenomena are never brought about that the liquid level is changed due to the evaporation of the sample 9, the sample 9 is coagulated at the wall surface of the hollow 1a to damage the wall surface, etc. Moreover, since the liquid container 4a is held by a holding device 5 from outside of the hollow 1a, measuring errors resulting from the fact that a sample stage is inside the hollow 1a are prevented. Since the inner diameter of a sheath 3 set to the hole 2 is sufficiently smaller than the wavelength of microwaves, the electromagnetic energy in the hollow 1a is prevented from being lost through radiation.

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